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Hierarchical Task Analysis(HTA)



List HTA

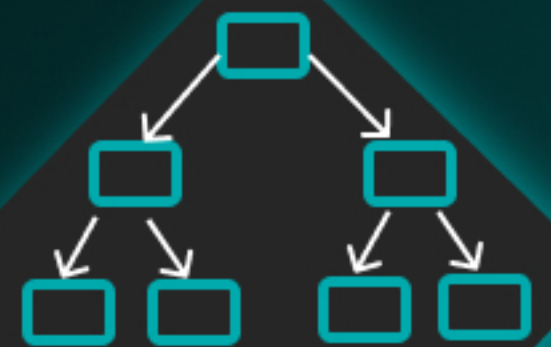


Diagram
HTA



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Guide Steps


In this guide, our UX design mentor “Muhammad Nawaz Rizvi” teaches you about “Hierarchical Task Analysis” step by step. Here what he’ll cover ...



Introduction



Definitions



HTA Applicable In



How to create HTA



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Ending

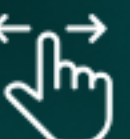


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HTA Introduction

The term "task" is a piece of work or goal to be undertaken by someone. Task analysis often results in a hierarchical representation of what steps it takes to perform a task for which there is a goal or interaction among humans and machines.

Hierarchical task analysis lets you explore various possible approaches to completing the same task.





HTA Definitions



Definition 1: Hierarchical task analysis provides an understanding of the tasks, users need to perform for achieving certain goals. You can break down these tasks into multiple levels of subtasks. (Muhammad Nawaz Rizvi)

Definition 2: A hierarchical task analysis (HTA) provides an understanding of the steps taken by users to achieve a certain goal. It is a structured, objective approach in which we have to breakdown a task in sub-tasks. (Muhammad Nawaz Rizvi)



HTA Applicable In

HTA applicable across a range of different domains. HTA useful in application designing, medical field research, detection, process control (e.g. nuclear power plants), education, aviation, and medicine, construct a process or planing, concluding time-and-motion, and training. In the end I (Muhammad Nawaz Rizvi) can say it useful across nearly any domain.



How to Create HTA?

Knowing how to do task analysis is a fundamental skill in UX. It is a way of decomposition and construction of a map (Planning) and decision making. There are few main steps in writing hierarchical task analysis.

- 1) First of all you have to know your audience (Understanding of users).
- 2) Before HTA there should be IA (Information Architecture).
- 3) Identify variables (functionalities) and major tasks of each page described in IA.
- 4) Start decision making for specific goal or task.
- 5) Breakdown or decompose a task in sub-tasks.
- 6) Sub-tasks should be further broken down into additional sub-tasks, continue this process until you reach an appropriate operation.



HTA Organizing Hierarchy

Each level in the HTA should be numbered according to its hierarchical level, The overall goal is the highest hierarchical level and should be numbered 1. The first sub-goal in the hierarchy will be:1.1. Further just extend this system hierarchy to level :1.1.1 and next hierarchical level will be: 1.1.1.1, and so on.

An HTA can be represented in list or diagram form as well as in In diagram form. In list form lines should be indented to denote the different hierarchical levels. In diagram form each operation should be placed within a box and links should be made between them: a lower hierarchical level should branch from underneath a higher level operation.

- 1: SignIn
- 1.1: Enter Email
- 1.2: Enter Password
 - 1.2.1: Show Passoward
 - 1.2.2: Hide Password
- 1.3: Forget Password?
- 1.4: Remember me
- 1.5: Click on Login button
- 1.6: Already have an account




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Benefits of HTA

A hierarchical task analysis directly has effects on system's cost, System reliability, efficiency, effectiveness, or safety, So HTA is very important for any system.

- 1) It lets you objectively compare different approaches to the supporting same task.
- 2) It supports UX design reuse.
- 3) HTA provide critical path analysis.
- 4) HTA Helpful in error analysis.
- 5) Evaluate systems against usability or functional requirements.



Note: If you wanna more detail about this please visit our site and read HTA article.




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HTA History

HTA's history is as old as human in the world. Muslim scholars have been using IA and HTA techniques for fourteen hundred years in genealogy (birth record) and in "Fatwa" or books writings. (Muhammad Nawaz Rizvi).

But in application designing, task analysis and psychological science the concept of HTA given by John Annett & Keith Duncan in 1967.



Thank You!

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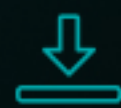
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